

Name _____



Date _____

More about the composition of functions

Complete.

1. $f(x) = 15x^3 - 10x^2 - 14x + 12$ $g(x) = 12x - 14$ find $g(-4) \times g(-1) - f(-9) \times g(2)$	2. $f(x) = -10x + 11$ $g(x) = -15x + 13$ find $g(f(5))$	3. $f(x) = 13x^3 + 12x^2 - 15x - 10$ $g(x) = 11x^2 - 13x - 13$ find $f(16) - g(16)$
4. $f(x) = 14x^2 - 11x - 14$ $g(x) = -10x^2 + 15x + 10$ find $f(6) \div g(6)$	5. $f(x) = -15x^3 - 11x^2 - 12x - 11$ $g(x) = -14x^3 + 14x^2 + 11x - 15$ find $g(-1) \times f(10) + f(-3) \times f(1)$	6. $f(x) = -10x^3 + 14x^2 - 13x + 15$ $g(x) = -13x - 15$ find $g(g(6))$
7. $f(x) = -14x^2 + 10x - 11$ $g(x) = 11x^2 - 11x - 13$ find $g(f(3))$	8. $f(x) = 13x + 12$ $g(x) = -13x^2 + 11x - 12$ find $g(-12) \times f(-7) + f(-10) \times g(12)$	9. $f(x) = -10x^2 - 10x + 15$ $g(x) = 12x - 14$ find $f(-4) \times g(1) - f(3) \times g(-7)$
10. $f(x) = 10x^3 - 15x^2 + 14x + 13$ $g(x) = -14x^3 + 12x^2 + 10x - 14$ find $f(4) \div g(4)$	11. $f(x) = -10x^2 - 10x - 15$ $g(x) = -11x + 14$ find $f(16) - g(16)$	12. $f(x) = 10x - 12$ $g(x) = -10x^3 + 10x^2 + 14x + 12$ find $f(g(9))$
13. $f(x) = -10x + 12$ $g(x) = 12x^2 - 13x - 15$ find $g(g(8))$	14. $f(x) = 12x^2 + 13x - 10$ $g(x) = 10x - 12$ find $g(12) \times f(5) - f(12) \times g(-9)$	15. $f(x) = -13x^3 + 14x^2 + 11x - 10$ $g(x) = 15x^3 - 14x^2 + 11x + 11$ find $g(-7) \times g(-10) + f(-8) \times f(-1)$